

# StuccoBase™

## Product Bulletin

### Uses

For use with the BASF Stucco Wall Systems. Acceptable substrates include: PermaBase® Cement Board and other cement-boards conforming with ASTM C1325 (Type A-exterior); poured concrete/unit masonry; ASTM C1177 type sheathings including e<sup>2</sup>XP™ sheathing; GlasRoc® sheathing; Securock™ glass-mat sheathing; DensGlass™ exterior sheathing; GreenGlass sheathing and Weather Defense Platinum sheathing; gypsum sheathing (ASTM C79/C1396), expanded polystyrene insulation board complying with ASTM C578 Type IV with nominal 1.5 lbs/ft<sup>3</sup> density, Exposure I or exterior plywood (Grade C/D or better), or Exposure I OSB, to which an air/water-resistive membrane and lath are attached.

### Technical Information

Consult our Technical Services Department for specific recommendations concerning all other applications. Consult the BASF Wall Systems website, [www.wallsystems.basf.com](http://www.wallsystems.basf.com), for additional information about products and systems and for updated literature.

### Mixing

1. Use mixer which is clean and free of foreign substances.
  2. Add 18.9–22.7 L (5–6 gallons) of clean potable water to mixer per bag of STUCCOBASE.
  3. Add one bag of STUCCOBASE.
  4. Add one half 45.4–54.4 kg (100–120 lbs) of the required plaster sand (ASTM C144 or ASTM C897).
  5. Mix for 3–4 minutes at normal mixing speed while adding the remainder 45.4–54.4 kg (100–120 lbs) of the plaster sand. Allow material to set for 2–4 minutes, then remix adding water to achieve desired consistency.
- Note: Over-mixing may cause excessive air entrainment. (Due to the potential of uncontrolled air-entrainment, the use of latex polymers with StuccoBase is not recommended. Before making any on-site additions other than sand and water to StuccoBase, consult specific additive manufacturer for recommendations.)**

Plaster sand must be clean and free from deleterious amounts of loam, clay, silt, soluble salts and organic matter. Sampling and testing must comply with ASTM C144 or ASTM C897. Plaster sand must be graded within the following limits:

### Advantages

Superior weathering properties; long-term durability

Proprietary formulation; improved moisture resistance and low water absorption

Fiber reinforced; resists shrinkage cracking when properly cured

Needs only addition of water and sand; easy to mix and use with consistent results

Concentrated for use with local sand; economical

### Description

Factory-blended mixture of Portland cement, reinforcing fibers, and other proprietary ingredients. STUCCOBASE is a concentrate which requires the addition of 90.7–108.9 kg (200–240 lbs) of plaster sand conforming to ASTM C144 or ASTM C897 and 18.9–22.7 liters (5–6 gallons) of potable water. STUCCOBASE conforms to ASTM C926, the standard specification for application of Portland cement-based stucco.

### Packaging

36.3 kg (80 lbs) per bag

### Coverage

Coverage may vary depending upon surface conditions and application technique.

7.43–8.36 m<sup>2</sup> (80–90 ft<sup>2</sup>) per 80 lb bag at a thickness of 3/8" to 1/2"

# StuccoBase™

## Application

1. Apply BASF Wall Systems' materials in accordance with current specifications and details.
2. Over wood or metal framing with sheathing, a water-resistive barrier and PermaLath, PermaLath 1000, wire fabric or self furring, expanded metal lath must be installed in accordance with ASTM C1063. When installed over wood based sheathing, two layers of grade D building paper are required or one layer of Grade D 60 minute paper with one layer of EPS or extruded polystyrene board with tongue and grooved edges or other substantially non water absorbing layer or drainage space are required, prior to installation of the lath.
3. Over concrete or masonry, remove all dust, dirt, grease, oil, laitance, efflorescence, biological residue, existing paint or coatings, curing compounds, form release agents or any other contaminants which might affect the bond. STUCCOBOND may be used to increase bond strength.
4. Trim accessories are installed per the project requirements and/or specifications.
5. A. For 9.5 mm (3/8") to 13 mm (1/2") application, apply mixed STUCCOBASE™ to the acceptable substrate by hand troweling or machine spraying in one coat to a minimum thickness of 9.5 mm (3/8") and a maximum thickness of 13 mm (1/2") completely embedding the lath. Use a rod and darby to level the applied base coat without exposing the lath.  
- OR -  
A. 1. For 19 mm (3/4") to 22 mm (7/8") application, apply mixed STUCCOBASE first "scratch" coat to the acceptable substrate by hand troweling or machine spraying to a minimum thickness of 9.5 mm (3/8") and a maximum thickness of 13 mm (1/2"), ensuring that the first coat is thick enough to embed the lath and allow for scoring of the surface. As soon as first coat becomes firm, score the entire surface in one direction only. Score vertical surfaces horizontally to provide key for second coat.  
2. Apply the second "brown" coat by hand troweling or machine spraying to provide the required total thickness as soon as the first coat is rigid enough to accept it without damage to the first coat. Level surface using rod or darby. Brown coat must be uniform in thickness. Ensure that the second coat is applied over a damp first coat. The first coat and second coat combined thickness will be from 19 mm (3/4") to 22 mm (7/8"). This double back method of application is done where by the first and second coats are applied and cured as one system. Application of the second brown coat may be delayed, provided the second coat is applied over a sufficiently damp first coat.
6. After surface has sufficiently hardened, use sponge or hard rubber float as required to fill voids, holes or imperfections, leaving surface ready to receive STUCCOPRIME or Finish Coat.
7. Damp cure for at least 48 hours by lightly and evenly fogging the surface with water at least twice a day. Direct sunlight, hot temperatures, low humidity and wind may make additional fogging necessary.
8. Allow Base Coat to cure a minimum of 6 days prior to application of EPS insulation board shapes or primer and Finish Coat application.

## Limitations

1. Surface and ambient temperatures must be between 4°C and 36°C (40°F–100°F) during the application and curing.
2. Do not install stucco under hot, dry, or windy conditions.
3. Avoid applying in direct sunlight.
4. Protect walls from rain, snow, and frost for a period of 48–72 hours; otherwise, low strength, streaking, or efflorescence may occur.
5. Expansion joints are required at least every 13m<sup>2</sup> (144 ft<sup>2</sup>), at the junction of dissimilar substrates, at existing joints in the substrate, and at floor lines in multi-level construction.
6. Do not install stucco over accessories, such as lights, bullet boxes, hose bibs.
7. Texture will vary depending upon application technique and sand type; test installations are recommended.
8. Apply STUCCOBASE in a continuous application within the area defined by expansion joints; always work to a wet edge to eliminate cold joints.
9. Proper application is the responsibility of the user.
10. Protect bussed materials from moisture during shipment and storage.
11. Shelf life of STUCCOBASE is 8 months if stored as directed.

## Health and Safety

**Caution**

Contains calcium hydroxide, fly ash, gypsum, magnesium hydroxide, Portland cement, silica, crystalline quartz.

**Risk**

Product is alkaline on contact with water and may cause injury to skin or eyes. Ingestion or inhalation of dust may cause irritation. Contains crystalline silica. NTP and IARC recognize respirable crystalline silica as a human carcinogen. Repeated or prolonged overexposure to free respirable quartz may cause silicosis or other serious and delayed lung injury.

**Precautions**

Avoid contact with skin, eyes and clothing. Prevent inhalation of dust. Wash thoroughly after handling. Keep container closed when not in use. DO NOT take internally. Use only with adequate ventilation. Use impervious gloves, eye protection and if the TLV is exceeded or used in poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable Federal, state (provincial) or local regulations.

**First Aid**

1. For eye contact, flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION.
2. For skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing.
3. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

**Read Material Safety Data Sheet before using this product.**

**Proposition 65**

This product contains materials listed by the state of California as known to cause cancer, birth defects or other reproductive harm.

**VOC Content**

0 g/l, or 0 lbs/gal less water and exempt solvents.

**For medical emergencies only call Chemtrec at (800) 424-9300.**

**Note**

BASF Wall Systems is an operating unit of BASF Corporation (herein after referred to as "BASF Wall Systems")

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